

FIGURE 1A

1 CGCGGGGTGT TCTGGTGTCC CCCGCCCCGC CTCTCAAAA AGCTACACCG ACGCGGACCG
GCGCCCCACA AGACCACAGG GGGCGGGGCG GAGAGGTTTT TCGATGTGGC TGCCTCTGGC

sstI

61 CGGCGGCGTC CTCCCTCGCC CTCGCTTCAC CTCGCGGGCT CCGAATGCGG GGAGCTCGGA
GCCGCCGAG GAGGGAGCGG GAGCGAAGTG GAGCGCCCGA GGCTTACGCC CCTCGAGCCT

121 TGTCCGGTTT CCTGTGAGGC TTTTACCTGA CACCCGCCGC CTTTCCCCGG CACTGGCTGG
ACAGGCCAAA GGACACTCCG AAAATGGACT GTGGGCGGCG GAAAGGGGCC GTGACCGACC

kasI

181 GAGGGCGCCC TGCAAAGTTG GGAACGCGGA GCCCCGGACC CGTCCCCGCC GCCTCCGGCT
CTCCCGCGGG ACGTTTCAAC CCTTGCGCCT CGGGGCTGG GCGAGGGCGG CGGAGGCCGA

241 CGCCCAGGGG GGGTCGCCGG GAGGAGCCCG GGGGAGAGGG ACCAGGAGGG GCCCGCGGCC
GCGGGTCCCC CCCAGCGGCC CTCCTCGGGC CCCCTCTCCC TGGTCTCTCC CGGGCGCCGG

kasI

ageI

301 TCGCAGGGGC GCCCGCGCCC CCACCCCTGC CCCCGCCAGC GGACCGGTCC CCCACCCCCG
AGCGTCCCCG CGGGCGCGGG GGTGGGGACG GGGGCGGTCTG CCTGGCCAGG GGGTGGGGGC

361 GTCCTTCCAC CATGCACTTG CTGGGCTTCT TCTCTGTGGC GTGTTCTCTG CTCGCCGCTG
CAGGAAGGTG GTACGTGAAC GACCCGAAGA AGAGACACCG CACAAGAGAC GAGCGGCGAC
-20 M H L L G F F S V A C S L L A A A

kasI

421 CGCTGCTCCC GGGTCCTCGC GAGGCGCCCC CCGCCGCCGC CGCCTTCGAG TCCGGACTION
GCGACGAGGG CCCAGGAGCG CTCCGCGGGC GCGGGCGGCG GCGGAAGCTC AGGCCTGAGC
-3 L L P G P R E A P A A A A A F E S G L D

481 ACCTCTCGGA CGCGGAGCCC GACGCGGGCG AGGCCACGGC TTATGCAAGC AAAGATCTGG
TGGAGAGCCT GCGCCTCGGG CTGCGCCCCG TCCGGTGCCG AATACGTTCT TTTCTAGAQC
18 L S D A E P D A G E A T A Y A S K D L E

541 AGGAGCAGTT ACGGTCTGTG TCCAGTGTAG ATGAACTCAT GACTGTACTC TACCCAGAAT
TCCTCGTCAA TGCCAGACAC AGGTCACATC TACTTGAGTA CTGACATGAG ATGGGTCTTA
38 E Q L R S V S S V D E L M T V L Y P E Y

FIGURE 1B

601 ATTGGAAAAT GTACAAGTGT CAGCTAAGGA AAGGAGGCTG GCAACATAAC AGAGAACAGG
TAACCTTTTA CATGTTTACA GTCGATTCTT TTCCTCCGAC CGTTGTATTG TCTCTTGTCC
58 W K M Y K C Q L R K G G W Q H N R E Q A

661 CCAACCTCAA CTCAAGGACA GAAGAGACTA TAAATTTGC TGCAGCACAT TATAATACAG
GGTTGGAGTT GAGTTCCTGT CTTCTCTGAT ATTTTAAACG ACGTCGTGTA ATATTATGTC
78 N L N S R T E E T I K F A A A H T N T E

sphI

721 AGATCTTGAA AAGTATTGAT AATGAGTGGG GAAAGACTCA ATGCATGCCA CGGGAGGTGT
TCTAGAACTT TTCATAACTA TTACTCACCT CTTTCTGAGT TACGTACGGT GCCCTCCACA
98 I L K S I D N E W R K T Q C M P R E V C

781 GTATAGATGT GGGGAAGGAG TTTGGAGTCG CGACAAACAC CTTCTTTAAA CCTCCATGTG
CATATCTACA CCCCTTCCTC AAACCTCAGC GCTGTTTGTG GAAGAAATTT GGAGGTACAC
118 I D V G K E F G V A T N T F F K P P C V

accI

841 TGTCCGTCTA CAGATGTGGG GGTGCTGCA ATAGTGAGGG GCTGCAGTGC ATGAACACCA
ACAGGCAGAT GTCTACACCC CCAACGACGT TATCACTCCC CGACGTCACG TACTTGTGGT
138 S V Y R C G G C C N S E G L Q C M N T S

901 GCACGAGCTA CCTCAGCAAG ACGTTATTTG AAATTACAGT GCCTCTCTCT CAAGGCCCCA
CGTGCTCGAT GGAGTCGTTT TGCAATAAAC TTTAATGTCA CGGAGAGAGA GTTCCGGGGT
158 T S Y L S K T L F E I T V P L S Q G P K

961 AACCAGTAAC AATCAGTTTT GCCAATCACA CTTCCTGCCG ATGCATGTCT AAACCTGGATG
TTGGTCATTG TTAGTCAAAA CGGTTAGTGT GAAGGACGGC TACGTACAGA TTTGACCTAC
178 P V T I S F A N H T S C R C M S K L D V

1021 TTTACAGACA AGTTCATTCC ATTATTAGAC GTTCCCTGCC AGCAACACTA CCACAGTGTC
AAATGTCTGT TCAAGTAAGG TAATAATCTG CAAGGGACGG TCGTTGTGAT GGTGTCACAG
198 Y R Q V H S I I R R S L P A T L P Q C Q

1081 AGGCAGCGAA CAAGACCTGC CCCACCAATT ACATGTGGAA TAATCACATC TGCAGATGCC
TCCGTCGCTT GTTCTGGACG GGGTGGTTAA TGTACACCTT ATTAGTGTAG ACGTCTACGG
218 A A N K T C P T N Y M W N N H I C R C L

FIGURE 1C

1141 TGGCTCAGGA AGATTTTATG TTTTCCTCGG ATGCTGGAGA TGA CTCAACA GATGGATTCC
ACCGAGTCCT TCTAAAATAC AAAAGGAGCC TACGACCTCT ACTGAGTTGT CTACCTAAGG
238 A Q E D F M F S S D A G D D S T D G F H

1201 ATGACATCTG TGGACCAAAC AAGGAGCTGG ATGAAGAGAC CTGTCA GTGT GTCTGCAGAG
TACTGTAGAC ACCTGGTTTG TTCCTCGACC TACTTCTCTG GACAGTCACA CAGACGTCTC
258 D I C G P N K E L D E E T C Q C V C R A

1261 CGGGGCTTCG GCCTGCCAGC TGTGGACCCC ACAAAGA AACT AGACAGAAAC TCATGCCAGT
GCCCCGAAGC CGGACGGTCG ACACCTGGGG TGTTCCTTGA TCTGTCTTTG AGTACGGTCA
278 G L R P A S C G P H K E L D R N S C Q C

1321 GTGTCTGTAA AAACAACTC TTCCCCAGCC AATGTGGGGC CAACCGAGAA TTTGATGAAA
CACAGACATT TTTGTTTGAG AAGGGGTCGG TTACACCCCG GTTGGCTCTT AAAC TACTTT
298 V C K N K L F P S Q C G A N R E F D E N

1381 ACACATGCCA GTGTGTATGT AAAAGAACCT GCCCCAGAAA TCAACCCCTA AATCCTGGAA
TGTGTACGGT CACACATACA TTTTCTTGGA CGGGGTCTTT AGTTGGGGAT TTAGGACCTT
318 T C Q C V C K R T C P R N Q P L N P G K

1441 AATGTGCCTG TGAATGTACA GAAAGTCCAC AGAAATGCTT GTTAAAAGGA AAGAAGTTCC
TTACACGGAC ACTTACATGT CTTTCAGGTG TCTTTACGAA CAATTTTCCT TTCTTCAAGG
338 C A C E C T E S P Q K C L L K G K K F H

eaeI

1501 ACCACCAAAC ATGCAGCTGT TACAGACGGC CATGTACGAA CCGCCAGAAG GCTTGTGAGC
TGGTGGTTTG TACGTCGACA ATGTCTGCCG GTACATGCTT GGCGGTCTTC CGAACACTCG
358 H Q T C S C Y R R P C T N R Q K A C E P

1561 CAGGATTTTC ATATAGTGAA GAAGTGTGTC GTTGTGTCCC TTCATATTGG AAAAGACCAC
GTCCTAAAAG TATATCACTT CTTACACAG CAACACAGGG AAGTATAACC TTTTCTGGTG
378 G F S Y S E E V C R C V P S Y W K R P Q

clal

1621 AAATGAGCTA AGATTGTACT GTTTTCCAGT TCATCGATTT TCTATTATGG AAAACTGTGT
TTTACTCGAT TCTAACATGA CAAAAGGTCA AGTAGCTAAA AGATAATACC TTTTGACACA
398 M S O

1681 TGCCACAGTA GAACTGTCTG TGAACAGAGA GACCCTTGTG GGTCCATGCT AACAAAGACA
ACGGTGT CAT CTTGACAGAC ACTTGTCTCT CTGGGAACAC CCAGGTACGA TTGTTTCTGT

1741 AAAGTCTGTC TTTCTGAAC CATGTGGATA ACTTTACAGA AATGGACTGG AGCTCATCTG
TTTCAGACAG AAAGGACTTG GTACACCTAT TGAAATGTCT TTACCTGACC TCGAGTAGAC

1801 CAAAAGGCCT CTTGTAAAGA CTGGTTTTCT GCCAATGACC AAACAGCCAA GATTTTCCTC
GTTTCCGGA GAACATTTCT GACCAAAAGA CGGTTACTGG TTTGTCGGTT CTAAAAGGAG

1861 TTGTGATTTT TTTAAAAGAA TGA CTATATA ATTTATTTCC ACTAAAATA TTGTTTCTGC
AACACTAAAG AAATTTTCTT ACTGATATAT TAAATAAAGG TGATTTTAT AACAAAGACG

1921 ATTCATTTTT ATAGCAACAA CAATTGGTAA AACTCACTGT GATCAATATT TTTATATCAT
TAAGTAAAAA TATCGTTGTT GTTAACCATT TTGAGTGACA CTAGTTATAA AAATATAGTA

1981 GCAAAATATG TTTAAAATAA AATGAAAATT GTATTAAAAA AAAAAAAAAA A
CGTTTTATAC AAATTTTATT TTA CTTTAA CATAATTTTT TTTTTTTTTT T

[illegible]

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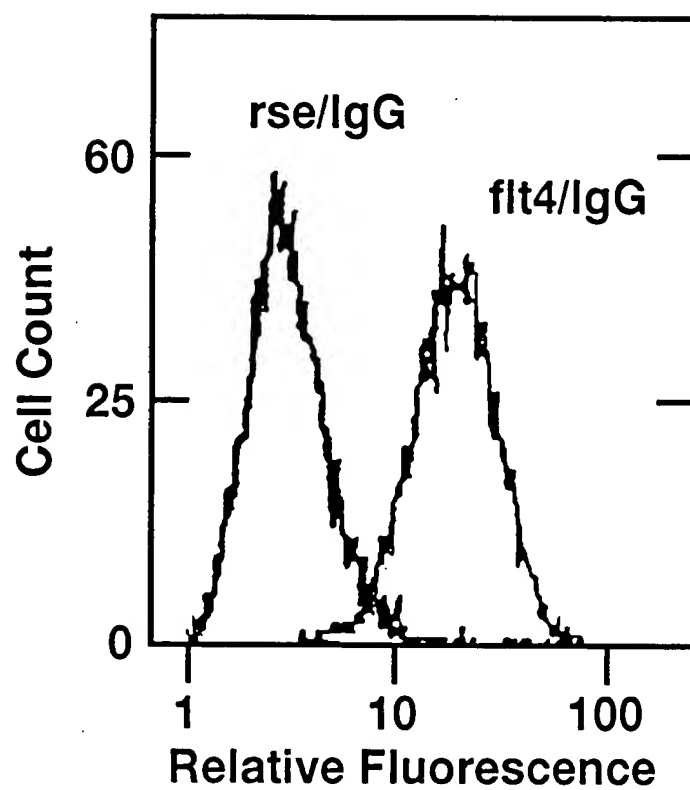
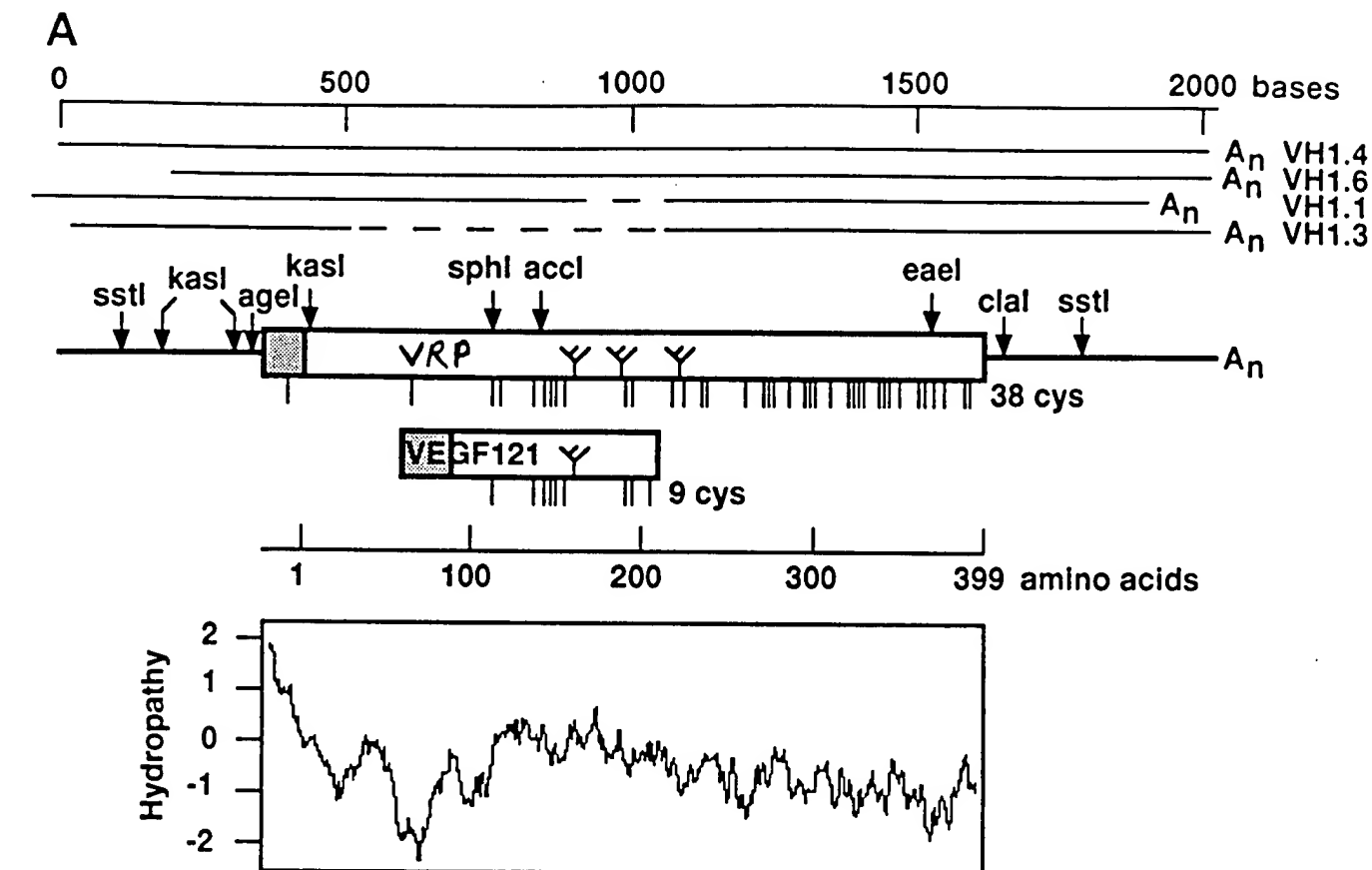


Figure 2



B

VRP	-20	MHLLGFFSVACSLLAALLPGPREAPAAAAAFESGLDLSDAEPDAGEATA
VRP	31	YASKDLEEQLRSVSSVDELMTVLYPEYWKMYKCLRKGGWQHNRQAANLN
VEGF121	-26MNFLLSVHWSLALLLYLHHA
PIGF131	-18MPVMRFPCLQLLAGLALPA
VRP	81	SRTEETIKFAAAHYNTEILKSIDNEWRKTQCMPREVCIDVGKEFGVATNT
VEGF121	-5	KWSQAAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFOEYPDEIEY
PIGF131	4	VPPQQWALSAGNGSSEVEVVPFQEVWGRSYCRALERLVDVVS EYPS EVEH
VRP	131	FFKPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLEFETVPLSOGPKPVT
VEGF121	46	IFKPPSCVPLMRCGGCCNDEGLECVPTTEESNITMQIMRIKP--HOGQHIGE
PIGF131	54	MFSPSCVSLLRCTGCCGDNELHCVPVETANVTMQLLKIRS--GDRPSYVE
VRP	181	ISFANHITSRCRCMSKLDVYRQVHSIIRRS L PATLPQCAANKTCPTNYMWN
VEGF121	94	MSFLQH NKCECRPKKDRARQEKCDKPRR
PIGF131	102	LTFSQHVRCECRPLREKMKPERCGDAVPRR
VRP	231	NHICRCLAQEDFMFSSDAGDDSTDGFHDICGPNKELDEETCQCVCRAGLR
VRP	281	PASCGPHKELDRNSCQCVCKNKLFPSCGANREFDENTCQCVCKRTCPRN
VRP	331	QPLNPGKCAECTESPQKCLLKGKKFHHOTCSCYRRPCTNRQKACEPGFS
VRP	381	YSEEVCRVCVPSYWKRPQMS

Figure 3

Contig[0002] Sequencher™ "Untitled Project"

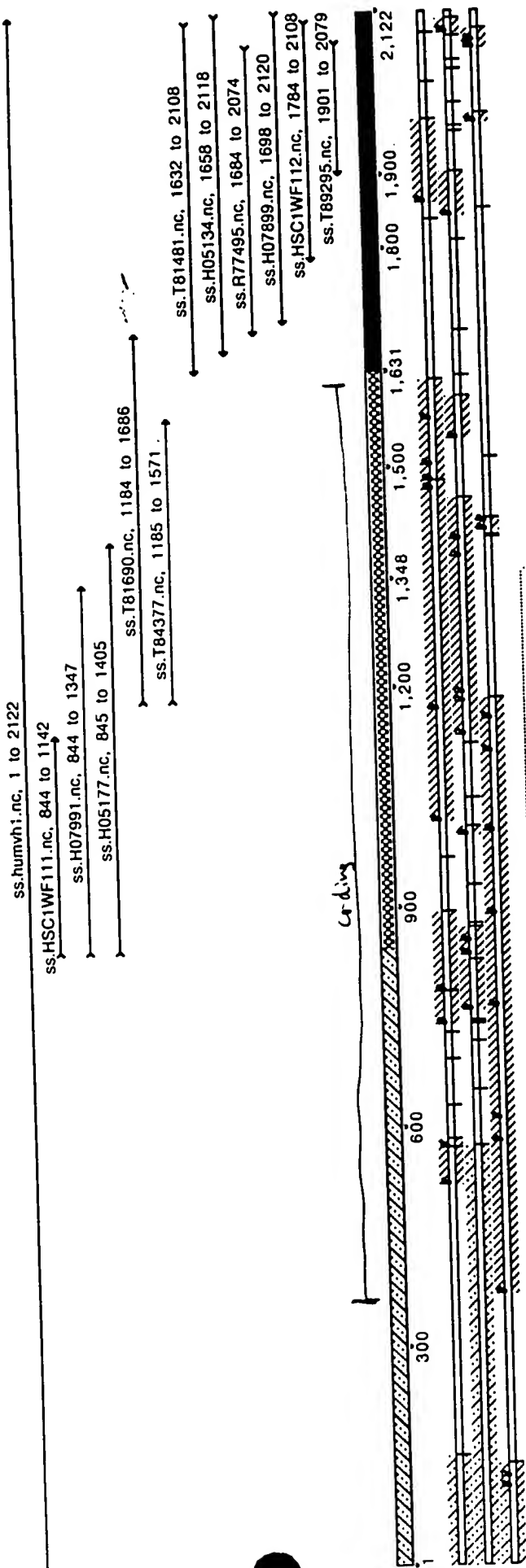


Diagram Key	
	Hole in contig
	Single fragment
	Multiple fragments same direction
	Both strands
	Both strands plus
	Start codon frame 1
	Stop codon frame 2
	Bumps on fragments
	show motifs, hollow rectangles
	show features

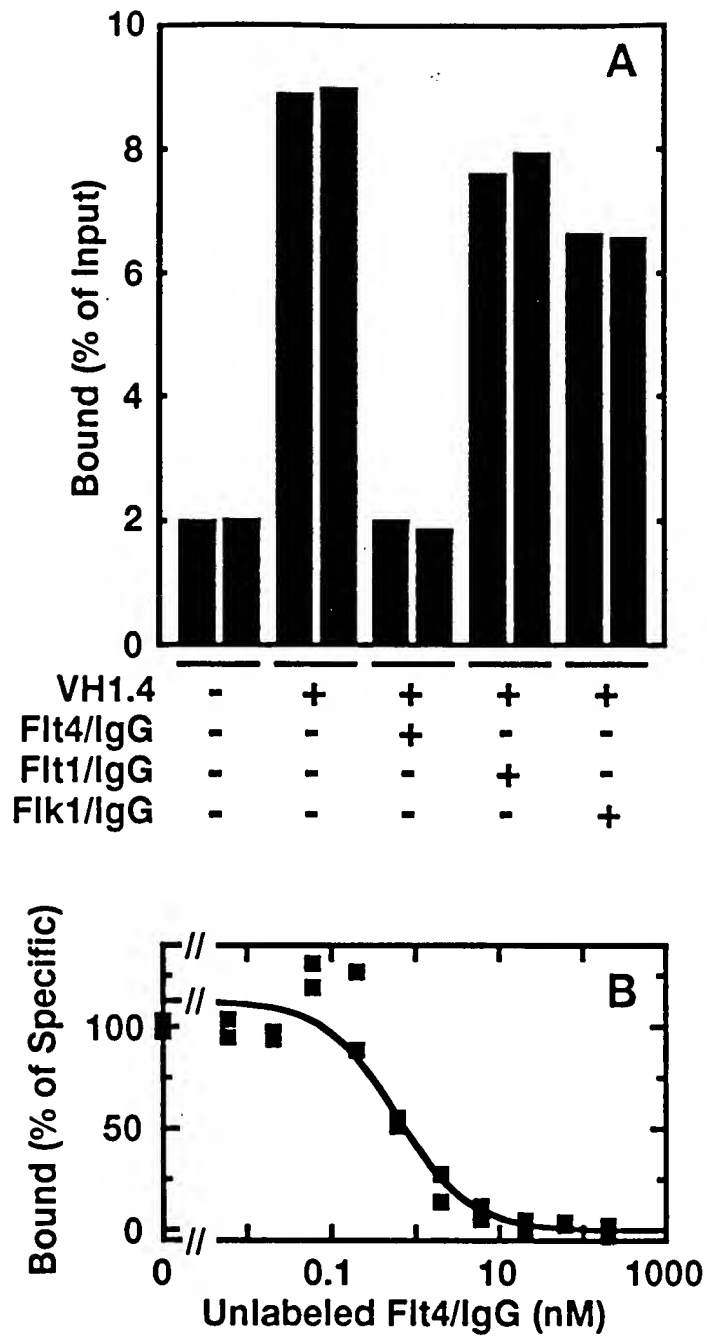


Figure 5

FIG. 6

